

**SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES**

SECTION 1 - IDENTIFICATION

Trade Name: **Potassium Biphthalate**
Catalog Number: 81-1045 (100g) / 81-1046 (500g)
Product Description: Student Reference Standards and Reagent Chemicals
Manufacturer: Auric Enterprises, Inc.
d/b/a Thorn Smith Laboratories
Address: 7755 Narrow Gauge Road
Beulah, MI 49617
Phone Number: 231-882-4672
SDS Number: TSL-107

SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture: Not a hazardous substance or mixture.

GHS Label Elements, including precautionary statements: Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Potassium Biphthalate
Common Synonyms: 1,2-Benzenedicarboxylic acid monopotassium salt; potassium hydrogen phthalate, potassium acid phthalate
Formula: $\text{KHC}_8\text{H}_4\text{O}_4$
CAS No.: 877-24-7
Molecular Weight: 204.22 g/mol
Purity: 99% or higher

SECTION 4 – FIRST AID MEASURES

Potential Acute Health Effects: Slightly hazardous in case of skin and eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: Repeated or prolonged exposure is not known to aggravate medical conditions.

Eye Contact: Do not rub eye(s); check for and remove contact lenses. Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, seek medical attention.

Skin Contact: Irritant. Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation: If a person breathes in large amounts, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: May be combustible at high temperature
Flash Points: Not Applicable
Auto-Ignition: Not Applicable
Flammable Limits: N/A
Products of Combustion: Carbon oxides (CO, CO₂). Some metallic oxides.
Extinguishing Media: Use extinguishing media appropriate to the surrounding fire. Do not use water jet.
Fire Fighting Procedure: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes.
Fire/Explosion Hazards: Slight flammable to flammable in presence of open flames and sparks, of heat.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of in accordance to all Federal, State and Local environmental regulations.

SECTION 7 – HANDLING AND STORAGE

Storage Temperatures: Do not store above 25°C (77°F).
Storage: Suitable for any general chemical storage area.
Shelf Life: Unlimited in tightly closed container.
Special Sensitivity: Isolate from incompatibles.
Precautions to be taken in handling and storage: Store in accordance with all local, state, and federal environmental regulations.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Type): None where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.
Protective Gloves: Wear protective gloves.
Eye Protection: Wear chemical safety glasses.
Ventilation To Be Used: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.
 Local Exhaust Mechanical (General) Special
 Other (Specify)

Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye wash stations should be available.
Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid crystals
Color: White
Odor: Odorless
Molecular Weight: 204.22 g/mole
Specific Gravity(water = 1): 1.636
Boiling Point: N/A
Melting Point: 297°C (566.6°F)
Solubility in Water: Soluble in cold water.
Water Reactive: No
Vapor Pressure: N/A
Vapor Density (Air-1): N/A
Evaporation Rate (-1): N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable Unstable
Conditions to Avoid: Heat. Stable under ordinary conditions of use and storage.
Incompatibility (Materials to avoid): Excess heat, dust generation, incompatible materials. Reacts with oxidizing agents.
Hazardous Decomposition Products: Not available
HAZARDOUS POLYMERIZATION: May Occur Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure: Ingestion. Inhalation.
Toxicity Data: Acute oral toxicity LD50 >3200 mg/kg (rat)
Acute dermal toxicity LD50 >1000 mg/kg (Guinea pig)
Chronic Toxic Effects: Not available.
Acute Toxic Effects: Inhalation of dust may cause irritation to upper respiratory tract and mucous membranes.
Large ingested doses may cause gastrointestinal irritation and pain.
May cause possible irritation to eyes and skin.
Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: No

SECTION 12 – ECOLOGICAL INFORMATION

Long term degradation products may arise.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal environmental regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s.

International (T.M.O.)

Proper Shipping Name: Chemicals, n.o.s.

Air (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s.

SECTION 15 – REGULATORY INFORMATION

Pennsylvania Right to Know Components:

Potassium hydrogen phthalate

New Jersey Right to Know Components:

Potassium hydrogen phthalate

SECTION 16 – OTHER INFORMATION

NFPA Rating: Health: 0 Flammability: 0 Reactivity: 0
HMIS Rating: Health: 1 Fire: 0 Reactivity: 0 Protection: C

Date Prepared: September 27, 1989
Date of Last Revision: November 11, 2020

The information published in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assume no liability resulting from its use. We reserve the right to revise Safety Data Sheets periodically as new information becomes available.